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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/846,991	05/01/2001	Hiroshi Shibata	2271/64858	3907	
	7590 04/15/2008 Ivan S. Kavrukov			EXAMINER	
COOPER & DUNHAM LLP 1185 Avenue of the Americas			SHINGLES, KRISTIE D		
New York, NY 10036			ART UNIT	PAPER NUMBER	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)	-
	09/846,991	SHIBATA, HIROSHI	
Office Action Summary	Examiner	Art Unit	
	KRISTIE D. SHINGLES	2141	
The MAILING DATE of this communication Period for Reply	appears on the cover sheet with	the correspondence address	
A SHORTENED STATUTORY PERIOD FOR REWHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFI after SIX (6) MONTHS from the mailing date of this communication - If NO period for reply is specified above, the maximum statutory pe - Failure to reply within the set or extended period for reply will, by sI Any reply received by the Office later than three months after the mearmed patent term adjustment. See 37 CFR 1.704(b).	G DATE OF THIS COMMUNIC, R 1.136(a). In no event, however, may a rep to the communication of	ATION. ly be timely filed HS from the mailing date of this communication. NDONED (35 U.S.C. § 133).	
Status			
Responsive to communication(s) filed on 2 This action is FINAL . 2b) Since this application is in condition for all closed in accordance with the practice und	This action is non-final. wance except for formal matte	·	
Disposition of Claims			
4) Claim(s) 1-46 and 49-52 is/are pending in the short claim(s) is/are with solution claim(s) is/are allowed. 5) Claim(s) is/are allowed. 6) Claim(s) 1-46 and 49-52 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction are subjection Papers	drawn from consideration.		
9) The specification is objected to by the Exan 10) The drawing(s) filed on is/are: a) Applicant may not request that any objection to Replacement drawing sheet(s) including the col 11) The oath or declaration is objected to by the	accepted or b) objected to be the drawing(s) be held in abeyand rrection is required if the drawing(s	e. See 37 CFR 1.85(a).) is objected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for force a) All b) Some * c) None of: 1. Certified copies of the priority docum 2. Certified copies of the priority docum 3. Copies of the certified copies of the priority docum application from the International Bu * See the attached detailed Office action for a	nents have been received. nents have been received in Ap priority documents have been r reau (PCT Rule 17.2(a)).	plication No eceived in this National Stage	
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 1/2008.) Paper No(s)	mmary (PTO-413) Mail Date ormal Patent Application	

Response to Amendment

Claims 1, 5, 9, 12, 15, 20, 23, 28, 31, 35, 39 and 49 have been amended. Claims 47-48 are cancelled.

Claims 1-46 and 49-52 are pending.

Response to Arguments

I. Applicant's arguments filed 1/22/2008 have been fully considered but they are not persuasive.

Regarding Independent Claims 1, 5, 9, 12, 15, 20, 23, 28, 31, 35, 39 and 49: Applicant argues that the cited art of record, Sampath et al (US 6,665,425) in view of Hockey et al (US 6,181,886) and Smith et al (US 6,785,015), fail to teach that the request is sent "automatically including said identification of said apparatus, said specification of said consumable product, and said identification of said service depot".

Examiner respectfully disagrees. The *Hockey et al* reference clearly teaches generating a service request to a service person which indicates the condition of the consumable product in the machine, identification of the machine needing remediation and identification of the service personnel to contact (*col.1 line 61-col.2 line 3, col.6 lines 58-63, col.7 lines 24-32*). Furthermore, *Smith et al* teach a peripheral being configured to issue maintenance notifications reporting the status of the peripheral's consumables and error conditions to suppliers and service personnel (*col.15 lines 5-25*), wherein notifications sent from the peripheral would obviously contain the peripherals identification, the error condition and identification of the service personnel being contacted. Applicant's arguments are therefore unpersuasive and the rejection under the prior art is maintained.

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Claim Rejections - 35 USC § 103

II. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

- III. <u>Claims 1-46 and 49-52</u> are rejected under 35 U.S.C. 103(a) as being unpatentable over *Sampath et al* (US 6,665,425) in view of *Hockey et al* (US 6,181,886) in further view of *Smith et al* (US 6,785,015).
- a. **Per claim 1,** Sampath et al teach a communications terminal apparatus, comprising:
 - a communications system configured to perform electronic communications with a manager supervising said apparatus (Abstract and col.7 line 57-col.8 line 20);
 - a register registering electronic communications addresses of said manager and said service depot, identification of said apparatus, specification of said consumable product, and identification of said service depot (col.1 line 61-col.2 line 58, col.3 line 53-col.4 line 10, and col.7 line 50-col.8 line 51); and
 - a controller configured to send a request for supplying said consumable product to said manager using said electronic communications address automatically when said detector detects that said consumable product is nearly ended (Abstract, col.4 line 11-col.5 line 8, col.6 lines 15-50 and col.7 line 50-col.8 line 51).

Sampath et al teach automatically identifying image quality problems in document processing systems, the automatic scheduling of service, parts and/or consumables and automated remediation of faults (col.1 lines 39-60) along with the collection of relevant machine data initiating diagnostic routines (col.3 line 53-col.4 line 10, col.7 lines 3-21, col.8 lines 1-11) and repair verification (Abstract, col.5 lines 1-6, col.7 lines 63-67). Yet Sampath et al fail to

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explicitly disclose a communications terminal apparatus supervised by a manager who contacts a service provider when servicing is required; a detector automatically detecting a status of usage of a consumable product in said apparatus and supplied by a service depot and send a report for reporting a completion of supplying said consumable product on said apparatus automatically when said detector detects that said consumable product is refilled, said request sent automatically including said identification of said apparatus, said specification of said consumable product, and said identification of said service depot. However, Hockey et al disclose automatic monitoring of the amount of consumable used in printing systems, and issuing a notification to the service person when the consumable has been refilled (col.1 line 61-col.2 line 3, col.6 lines 49-63); while Smith et al teach a system manager supervising a network peripheral and contacting a consumable and parts supplier when repair services are needed (col.15 lines 5-30).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teachings of Sampath et al with Hockey et al and Smith et al for the purpose of providing automated detection capabilities in order to collect the necessary data needed for diagnosing possible machine defects or problems without manual intervention along with notification means for notifying in the case of a repair and when a repair has been has been corrected in order to prevent further service actions. Provisioning a manager that contacts a service provider when servicing of an apparatus is needed is well-known technique used in managing networked peripherals and would have been obvious to implement in order to directly communicate the necessary repairs needed to a service repair provider.

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b. Claims 5, 9, 12 and 49 contain limitations substantially equivalent to the limitations of Claim 1 and are therefore rejected under the same basis.

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- c. **Per claim 39,** Sampath et al teach a method of maintaining a system that comprises networked units that may require from time to time at least one of replenishing consumables and servicing of components, wherein said consumables or servicing are provided by at least one external facility and said system of networked units is supervised by a manager who need not be at the premises of said units, said method comprising:
 - responding to the generation of a first detection signal at the unit to automatically generate and electronically transmit a first notification to each of (a) the manager supervising the networked units, and (b) the at least one external facility (Abstract and col.7 line 57-col.8 line 20);
 - wherein said first notification identifies at least said unit and said event to thereby advise both the manager and the at least one facility (a) identification of the networked unit that has a requirement (b) identification of the requirement and (c) identification of a service depot that can provide the required consumable or servicing (col.1 line 61-col.2 line 58, col.3 line 53-col.4 line 10, and col.7 line 50-col.8 line 51).

Sampath et al teach automatically identifying image quality problems in document processing systems, the automatic scheduling of service, parts and/or consumables and automated remediation of faults (col.1 lines 39-60) along with the collection of relevant machine data initiating diagnostic routines (col.3 line 53-col.4 line 10, col.7 lines 3-21, col.8 lines 1-11) repair verification (Abstract, col.5 lines 1-8, col.7 lines 63-67, col.8 lines 1-45). Yet Sampath et al fail to explicitly disclose automatically detecting a first event indicative of a requirement for replenishing consumables or servicing components at any one of said networked units, and generating a first detection signal in response to a detection of a first event at the unit and automatically detecting thereafter at said unit a second event indicating that the requirement has

been satisfied, and generating a second detection signal in response to a detection of said second

event; responding to the generation of said second detection signal to automatically generate and

transmit a second notification to at least one of said manager and said at least one facility; and

said second notification advising that the requirement has been met. However, Hockey et al

disclose automatic monitoring of the amount of consumable used in printing systems, and issuing

a notification to the service person when the consumable has been refilled (col.6 lines 49-63,

col.7 lines 24-43); while Smith et al teach a system manager supervising a network peripheral

and contacting a consumable and parts supplier when repair services are needed (col.15 lines 5-

30).

It would have been obvious to one of ordinary skill in the art at the time the

invention was made to combine the teachings of Sampath et al and Hockey et al with Smith et al

for the purpose of providing automated detection capabilities in order to collect the necessary

data needed for diagnosing possible machine defects or problems without manual intervention

along with notification means for notifying in the case of a repair and when a repair has been has

been corrected in order to prevent further service actions. Provisioning a manager that contacts a

service provider when servicing of an apparatus is needed is well-known technique used in

managing networked peripherals and would have been obvious to implement in order to directly

communicate the necessary repairs needed to a service repair provider.

d. Claims 15, 20, 23, 28, 31 and 35 contain limitations substantially equivalent to

the limitations of Claims 1 and 39 and are therefore rejected under the same basis.

e. **Per claim 2,** Sampath et al and Hockey et al with Smith et al teach a

communications terminal apparatus as defined in claim 1, Sampath et al further teach wherein

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said communications system performs E-mail communications with said manager (col.1 lines 61-67 and col.7 line 57-col.8 line 20; Smith et al—col.15 lines 5-30).

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- f. Claims 6, 10, 13, 18, 26, 32, 36 and 42 contain limitations substantially equivalent to the limitation of Claim 2 and are therefore rejected under the same basis.
- g. **Per claim 3,** Sampath et al and Hockey et al with Smith et al teach a communications terminal apparatus as defined in claim 1, Sampath et al further teach wherein said consumable product includes toner (col.7 lines 3-23 and col.8 lines 1-51; Hockey et al—col.1 line 43-45).
- h. Claims 11, 33 and 44 contain limitations substantially equivalent to the limitations of Claim 3 and are therefore rejected under the same basis.
- i. **Per claim 4**, *Sampath et al* and *Hockey et al* with *Smith et al* teach a communications terminal apparatus as defined in claim 1, *Sampath et al* further teach wherein said communications system performs facsimile communications with said manager (*col.1 lines 40-67*, *col.5 lines 9-22 and col.8 lines 11-20*).
- j. Claims 8, 19, 22, 27, 30, 34, 38 and 43 contain limitations substantially equivalent to the limitations of Claim 4 and are therefore rejected under the same basis.
- k. **Per claim 7**, *Sampath et al* and *Hockey et al* with *Smith et al* teach a communications terminal apparatus as defined in claim 5, *Sampath et al* further teach wherein said maintenance component includes a photoconductor (*col.5 lines 9-22*).
- l. Claims 14, 37 and 46 contain limitations substantially equivalent to the limitations of Claim 7 and are therefore rejected under the same basis.

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m. **Per claim 16**, Sampath et al and Hockey et al with Smith et al teach a communications terminal apparatus as defined in claim 15, Sampath et al further teach the apparatus comprising:

- an analyzer configured to analyze E-mail including request receipt acknowledgement information notified from either said manager or said service depot with respect to said first E-mail (col.7 lines 36-67);
- a display displaying said request receipt acknowledgement information (col.8 lines 1-20),
- wherein said mail controlling system controls said display to display said request receipt acknowledgement information analyzed by said analyzer, and controls said display to stop displaying when said consumable product is determined to be in said refilled status based on said detect information detected by said consumable product status detector (*Abstract, col.8 lines 1-51, col.10 line 65-col.11 line 13*).
- n. Claims 21, 24 and 29 contain limitations substantially equivalent to the limitations of Claim 16 and are therefore rejected under the same basis.
- o. **Per claim 17**, Sampath et al and Hockey et al with Smith et al teach a communications terminal apparatus as defined in claim 15, Sampath et al further teach wherein said terminal identification information includes at least one of an E-mail address, a serial number, facsimile TTI information, and a telephone number of said apparatus (col.1 line 61-col.2 line 58, col.3 line 53-col.4 line 10, and col.7 line 50-col.8 line 51).
- p. Claim 25 contains limitations substantially equivalent to the limitations of Claim17 and is therefore rejected under the same basis.
- q. **Per claim 40**, Sampath et al and Hockey et al with Smith et al teach a method as in claim 39 including receiving at the unit, Sampath et al further teach in response to said transmitting of said first notification, a first communication from at least one of said manager

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and said at least one external facility and displaying a selected representation of said response at

the unit (col.2 lines 54-58, col.7 lines 36-67 and col.8 lines 1-20; Smith et al—col.5 lines 5-54).

r. **Per claim 41**, Sampath et al and Hockey et al with Smith et al teach a method as

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in claim 40, Sampath et al further teach in which said communication is from said at least one

external facility and advise when the request is expected to be met (col.1 lines 52-67 and col.2

lines 54-67).

s. **Per claim 45**, Sampath et al and Hockey et al with Smith et al teach a method as

in claim 39 Sampath et al further teach the method in which said first event is indicative of a

requirement to service a heater in said unit (col.3 line 53-col.4 line 26).

t. **Per claim 50,** Sampath et al and Hockey et al with Smith et al teach the

communications terminal apparatus of Claim 1, *Hockey et al* further teach wherein said detector

detects a remaining amount of consumable product in said apparatus, and sends to said controller

a signal including detection information corresponding to the remaining amount of said

consumable product detected by said detector (col.6 lines 21-65).

u. Per claim 51, Sampath et al and Hockey et al with Smith et al teach the

communications terminal apparatus of Claim 5, Sampath et al further teach wherein said

controller sends said request to both said manager and said service depot and sends a request for

refilling a consumable product in said communications terminal apparatus only to said manager,

when said communications terminal apparatus is in need of refilling of said consumable product

(col.5 lines 1-4, col.8 lines 1-25 and 35-51, col.11 lines 2-13 and 38-46; Smith et al—col.15 lines

5-54).

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v. Claim 52 contains limitations substantially equivalent to the limitations of Claim

51 and is therefore rejected under the same basis.

Conclusion

IV. The prior art made of record and not relied upon is considered pertinent to applicant's

disclosure: Chapman et al (6522421), Okada et al (6088125), Frantz (6003070), Danknick et al

(5901286), Takada et al (5666294), Aikens et al (5414494), Motoyama et al (6613247),

Villalpando (6219718), Iizuka (6029198).

V. Applicant's amendment necessitated the new ground(s) of rejection presented in this

Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a).

Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE

MONTHS from the mailing date of this action. In the event a first reply is filed within TWO

MONTHS of the mailing date of this final action and the advisory action is not mailed until after

the end of the THREE-MONTH shortened statutory period, then the shortened statutory period

will expire on the date the advisory action is mailed, and any extension fee pursuant to 37

CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

however, will the statutory period for reply expire later than SIX MONTHS from the date of this

final action.

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VI. Any inquiry concerning this communication or earlier communications from the

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examiner should be directed to Kristie D. Shingles whose telephone number is 571-272-3888.

The examiner can normally be reached on Monday 8:00am-5:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Rupal Dharia can be reached on 571-272-3880. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

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system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Kristie D Shingles Examiner

Art Unit 2141

kds

/William C. Vaughn, Jr./

Supervisory Patent Examiner, Art Unit 2144